PCT

RAW SEQUENCE LISTING   DATE: 10/08/2004
PATENT APPLICATION: US/10/509,767   TIME: 11:43:06

Input Set : A:\X15478 National.ST25.txt
Output Set: N:\CRF4\10082004\J509767.raw

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 3 <110> APPLICANT: Jaskunas, Stanley Richard
 4       Li, De-Shan
 5       Liu, Ling
 6       Zeng, Wei
 8 <120> TITLE OF INVENTION: Use of Resistin to Treat Hematopoietic Disorders
10 <130> FILE REFERENCE: X15478
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C--> 12 <140> **CURRENT APPLICATION NUMBER: US/10/509,767**
C--> 12 <141> **CURRENT FILING DATE: 2004-09-28**
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12 <160> NUMBER OF SEQ ID NOS: 14
14 <170> SOFTWARE: PatentIn version 3.1
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 327
18 <212> TYPE: DNA
19 <213> ORGANISM: Homo sapiens
21 <220> FEATURE:
22 <221> NAME/KEY: misc_feature
23 <222> LOCATION: (1)..(327)
24 <223> OTHER INFORMATION: Human Resistin Polynucleotide
27 <400> SEQUENCE: 1
28 atgaaagctc tctgtctcct cctcctccct gtcctggggc tgttggtgtc tagcaagacc     60
30 ctgtgctcca tggaagaagc catcaatgag aggatccagg aggtcgccgg ctccctaata    120
32 tttagggcaa taagcagcat tggcctggag tgccagagcg tcacctccag gggggacctg    180
34 gctacttgcc cccgaggctt cgccgtcacc ggctgcactt gtggctccgc ctgtggctcg    240
36 tgggatgtgc gcgccgagac cacatgtcac tgccagtgcg cgggcatgga ctggaccgga    300
38 gcgcgctgct gtcgtgtgca gccctga                                        327
41 <210> SEQ ID NO: 2
42 <211> LENGTH: 108
43 <212> TYPE: PRT
44 <213> ORGANISM: Homo sapiens
46 <220> FEATURE:
47 <221> NAME/KEY: MISC_FEATURE
48 <222> LOCATION: (1)..(108)
49 <223> OTHER INFORMATION: Human Resistin Polypeptide
52 <400> SEQUENCE: 2
54 Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
55 1               5                   10                  15
58 Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile
59             20                  25                  30
62 Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly
63         35                  40                  45
66 Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro
67     50                  55                  60
70 Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser
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ENTERED

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71 65                   70              75              80
74 Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met
75                   85              90              95
78 Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro
79            100           105
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83 <211> LENGTH: 90
84 <212> TYPE: PRT
85 <213> ORGANISM: Homo sapiens
87 <220> FEATURE:
88 <221> NAME/KEY: MISC_FEATURE
89 <222> LOCATION: (1)..(90)
90 <223> OTHER INFORMATION: Mature Human Resistin Polypeptide
93 <400> SEQUENCE: 3
95 Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile Gln Glu
96 1              5                   10              15
99 Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly Leu Glu
100            20              25              30
103 Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro Arg Gly
104            35              40              45
107 Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser Trp Asp
108      50              55              60
111 Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met Asp Trp
112 65              70              75              80
115 Thr Gly Ala Arg Cys Cys Arg Val Gln Pro
116            85              90
119 <210> SEQ ID NO: 4
120 <211> LENGTH: 108
121 <212> TYPE: PRT
122 <213> ORGANISM: Homo sapiens
124 <220> FEATURE:
125 <221> NAME/KEY: MISC_FEATURE
126 <222> LOCATION: (1)..(108)
127 <223> OTHER INFORMATION: Human Resistin Allelic Variant
130 <400> SEQUENCE: 4
132 Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
133 1              5                   10              15
136 Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile
137            20              25              30
140 Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly
141            35              40              45
144 Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro
145      50              55              60
148 Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser
149 65              70              75              80
152 Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met
153            85              90              95
156 Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro
157            100           105
```

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160 <210> SEQ ID NO: 5
161 <211> LENGTH: 108
162 <212> TYPE: PRT
163 <213> ORGANISM: Homo sapiens
165 <220> FEATURE:
166 <221> NAME/KEY: MISC_FEATURE
167 <222> LOCATION: (1)..(108)
168 <223> OTHER INFORMATION: Human Resistin Allelic Variant
171 <400> SEQUENCE: 5
173 Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
174 1               5                   10                  15
177 Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile
178             20                  25                  30
181 Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly
182         35                  40                  45
185 Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro
186     50                  55                  60
189 Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser
190 65                  70                  75                  80
193 Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met
194             85                  90                  95
197 Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro
198             100                 105
201 <210> SEQ ID NO: 6
202 <211> LENGTH: 108
203 <212> TYPE: PRT
204 <213> ORGANISM: Homo sapiens
206 <220> FEATURE:
207 <221> NAME/KEY: MISC_FEATURE
208 <222> LOCATION: (1)..(108)
209 <223> OTHER INFORMATION: Human Resistin Allelic Variant
212 <400> SEQUENCE: 6
214 Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
215 1               5                   10                  15
218 Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile
219             20                  25                  30
222 Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly
223         35                  40                  45
226 Arg Gly Ser Glu Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro
227     50                  55                  60
230 Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser
231 65                  70                  75                  80
234 Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met
235             85                  90                  95
238 Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro
239             100                 105
242 <210> SEQ ID NO: 7
243 <211> LENGTH: 107
244 <212> TYPE: PRT
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245 <213> ORGANISM: Homo sapiens
247 <220> FEATURE:
248 <221> NAME/KEY: MISC_FEATURE
249 <222> LOCATION: (1)..(107)
250 <223> OTHER INFORMATION: Human Resistin Allelic Variant
253 <220> FEATURE:
254 <221> NAME/KEY: MISC_FEATURE
255 <222> LOCATION: (48)..(48)
256 <223> OTHER INFORMATION: Xaa=Arg or Leu
259 <220> FEATURE:
260 <221> NAME/KEY: MISC_FEATURE
261 <222> LOCATION: (49)..(49)
262 <223> OTHER INFORMATION: Xaa=Gly or Glu
265 <220> FEATURE:
266 <221> NAME/KEY: MISC_FEATURE
267 <222> LOCATION: (50)..(50)
268 <223> OTHER INFORMATION: Xaa=Cys or Ser
271 <220> FEATURE:
272 <221> NAME/KEY: MISC_FEATURE
273 <222> LOCATION: (51)..(51)
274 <223> OTHER INFORMATION: Xaa=Gln or Glu
277 <400> SEQUENCE: 7
279 Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
280 1               5                   10                  15
283 Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Gln
284             20                  25                  30
```
W-->
```
287 Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly Xaa
288             35                  40                  45
291 Xaa Xaa Xaa Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro Arg
292     50                  55                  60
295 Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser Trp
296 65                  70                  75                  80
299 Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met Asp
300             85                  90                  95
303 Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro
304             100                 105
307 <210> SEQ ID NO: 8
308 <211> LENGTH: 39
309 <212> TYPE: DNA
310 <213> ORGANISM: Artificial Sequence
312 <220> FEATURE:
313 <223> OTHER INFORMATION: Synthetic Construct
315 <400> SEQUENCE: 8
316 gatcggcgcg ccagccacca tgaaagctct ctgtctcct                    39
319 <210> SEQ ID NO: 9
320 <211> LENGTH: 29
321 <212> TYPE: DNA
322 <213> ORGANISM: Artificial Sequence
324 <220> FEATURE:
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```
325 <223> OTHER INFORMATION: Synthetic Construct
327 <400> SEQUENCE: 9
328 cgcgatatcg ggctgcacac gacagcagc                              29
331 <210> SEQ ID NO: 10
332 <211> LENGTH: 21
333 <212> TYPE: DNA
334 <213> ORGANISM: Artificial Sequence
336 <220> FEATURE:
337 <223> OTHER INFORMATION: Synthetic Construct
339 <400> SEQUENCE: 10
340 agccatcaat gagaggatcc a                                      21
343 <210> SEQ ID NO: 11
344 <211> LENGTH: 20
345 <212> TYPE: DNA
346 <213> ORGANISM: Artificial Sequence
348 <220> FEATURE:
349 <223> OTHER INFORMATION: Synthetic Construct
351 <400> SEQUENCE: 11
352 tccaggccaa tgctgcttat                                        20
355 <210> SEQ ID NO: 12
356 <211> LENGTH: 24
357 <212> TYPE: DNA
358 <213> ORGANISM: Artificial Sequence
360 <220> FEATURE:
361 <223> OTHER INFORMATION: Synthetic Construct
363 <400> SEQUENCE: 12
364 tcgccggctc ctaatattta gggc                                   24
367 <210> SEQ ID NO: 13
368 <211> LENGTH: 114
369 <212> TYPE: PRT
370 <213> ORGANISM: rattus sp.
372 <220> FEATURE:
373 <221> NAME/KEY: MISC_FEATURE
374 <222> LOCATION: (1)..(114)
375 <223> OTHER INFORMATION: Rat resistin protein
378 <400> SEQUENCE: 13
380 Met Lys Asn Leu Ser Phe Leu Leu Leu Phe Leu Phe Phe Leu Val Leu
381 1               5                   10                  15
384 Gly Leu Leu Gly Pro Ser Met Ser Leu Cys Pro Met Asp Glu Ala Ile
385             20                  25                  30
388 Ser Lys Lys Ile Asn Gln Asp Phe Ser Ser Leu Leu Pro Ala Ala Met
389         35                  40                  45
392 Lys Asn Thr Val Leu His Cys Trp Ser Val Ser Ser Arg Gly Arg Leu
393     50                  55                  60
396 Ala Ser Cys Pro Glu Gly Thr Thr Val Thr Ser Cys Ser Cys Gly Ser
397 65                  70                  75                  80
400 Gly Cys Gly Ser Trp Asp Val Arg Glu Asp Thr Met Cys His Cys Gln
401             85                  90                  95
404 Cys Gly Ser Ile Asp Trp Thr Ala Ala Arg Cys Cys Thr Leu Arg Val
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 10/08/2004
PATENT APPLICATION: **US/10/509,767**   TIME: 11:43:07

Input Set : **A:\X15478 National.ST25.txt**
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<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; Xaa Pos. 48,49,50,51

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/509,767**

DATE: 10/08/2004
TIME: 11:43:07

Input Set : **A:\X15478 National.ST25.txt**
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L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:32
M:341 Repeated in SeqNo=7